

**AMENDMENTS TO THE SPECIFICATION:**

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Please replace the paragraph commencing at line 13 with the following amended paragraph:

a' The strength of this injected noise may be adjusted by the VOA 80. The OSA (optical spectrum analyzer) 83 may be used to measure amount of noise (e.g. measure the optical signal-to-noise ratio (OSNR)) and send such measurements to the AMS controller 100. The AMS controller 100 may then use measurements to control the OSNR by adjusting the VOA 80. As an alternative, the OSNR may also be adjusted by using a VOA in the test signal path and adjusting the test signal strength relative to the noise signal strength.